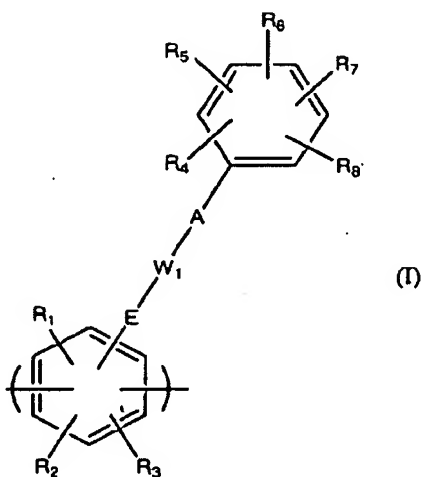


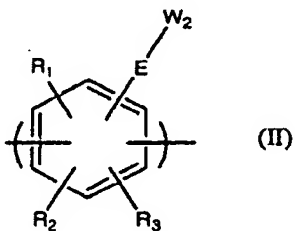
This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Original) A polymer, the skeleton of which consists of at least one phenylene repeating unit of formula (I) below:



and of at least one phenylene repeating unit of formula (II) below:



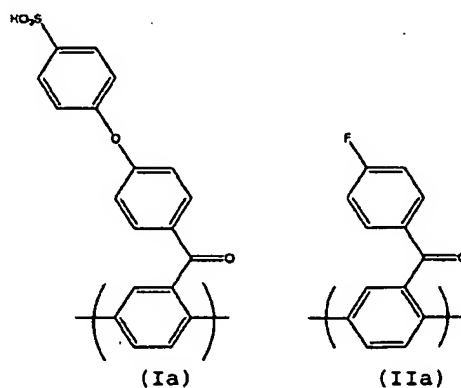
in which:

- the groups R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub>, which may be identical or different, represent a hydrogen atom, a halogen atom, an alkyl group, an aryl group, a perfluoroalkyl group or a perfluoroaryl group;

- the group E represents a single bond or a group chosen from  $-(C=O)-$ ,  $-P(=O)-$  and  $-SO_2-$ ;
  - the group  $W_1$  represents an arylene group or a perfluoroarylene group;
  - the group A represents a group chosen from  $-O-$ ,  $-S-$ ,  $-NH-$  and  $-NR_9-$ ,  $R_9$  being an alkyl group;
  - the group  $W_2$  represents an aryl group substituted with at least one substituent chosen from F,  $-O-SO_2-Aryl$ ,  $-S(=O)-Aryl$  or represents a perfluoroaryl group;
  - the groups  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$ , which may be identical or different, represent a group chosen from:
    - a hydrogen atom, a halogen atom, an  $-OH$  group, a group  $-M(R_{10})_3$  with  $R_{10}$  representing an alkyl group and M a metal chosen from Si, Sn and Ge;
    - a group  $-P(=O)(OR_{11})_2$  with  $R_{11}$  representing an alkyl group;
    - an aryl group, a group  $-O-Aryl$ , a group  $-SO_2-aryl$ , an alkylaryl group, a perfluoroalkyl group or a perfluoroalkylaryl group, said alkyl, perfluoroalkyl and perfluoroalkylaryl groups optionally comprising in their chain one or more oxygen, nitrogen and/or sulfur atoms;
    - a perfluoroaryl group or a group  $-O-perfluoroaryl$ , said perfluoroalkyl, perfluoroaryl, perfluoroalkylaryl and  $-O-perfluoroaryl$  groups optionally bearing a group chosen from  $-SO_3H$ ,  $-PO_3H_2$  and  $-CO_2H$ ;
    - an  $-SO_3H$  group, a  $-PO_3H_2$  group or a  $-CO_2H$  group;
- on condition that at least one of the groups  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  represents a group chosen from  $-SO_3H$ ,  $-PO_3H_2$  and  $-CO_2H$  groups, perfluoroalkyl groups, perfluoroalkylaryl groups optionally comprising in their chain one or more oxygen, nitrogen and/or sulfur atoms, perfluoroaryl groups and  $-O-perfluoroaryl$  groups, these perfluoro groups bearing a group chosen from  $-SO_3H$ ,  $-PO_3H_2$  and  $-CO_2H$ , said  $-SO_3H$ ,  $-PO_3H_2$  and  $-CO_2H$  groups possibly being in the form of alkali metal salts.

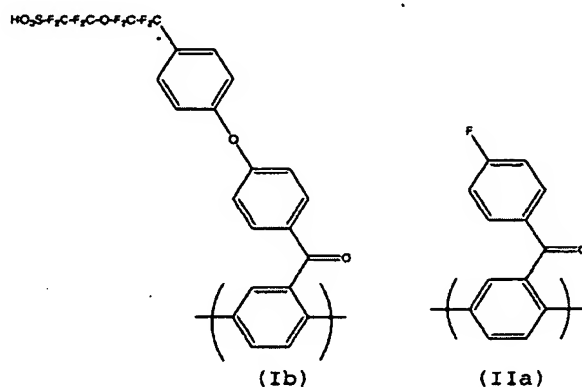
2. (Previously Presented) The polymer as claimed in claim 1, the molecular weight of which is greater than or equal to 50 000.

3. (Previously Presented) The polymer as claimed in claim 1, in which the phenylene groups of the skeleton are in the para position relative to each other.
4. (Previously Presented) The polymer as claimed claim 1, which is a random, alternating or sequential polymer.
5. (Previously Presented) The polymer as claimed in claim 1, comprising from 40 to 50 mol% of the repeating unit(s) of formula (I) and from 60 to 50 mol% of the repeating unit(s) of formula (II).
6. (Previously Presented) The polymer as claimed in claim 1, in which at least one of the groups  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  represents a perfluoroalkyl group, comprising in its chain one or more oxygen, nitrogen and/or sulfur atoms, said group bearing a group chosen from  $-\text{SO}_3\text{H}$ ,  $-\text{PO}_3\text{H}_2$  and  $-\text{CO}_2\text{H}$  or its alkali metal salts.
7. (Previously Presented) The polymer as claimed in claim 1, in which, for the repeating unit(s) of formula (I), at least one of the groups  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  represents a group chosen from  $-\text{SO}_3\text{H}$ ,  $-\text{PO}_3\text{H}_2$  and  $-\text{CO}_2\text{H}$ , and, for the unit(s) of formula (II),  $W_2$  is an aryl group bearing a fluorine leaving group.
8. (Original) The polymer as claimed in claim 7, the skeleton of which consists of repeating units of formulae (Ia) and (IIa) below:

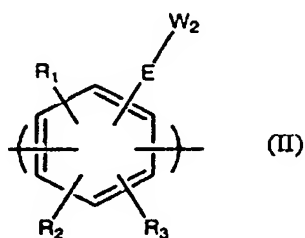


9. (Previously Presented) The polymer as claimed in claim 1, in which, for the repeating unit(s) of formula (I), at least one of the groups  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$  and  $R_8$  represents a perfluoroalkyl group chosen from the groups having the following formulae:  
 $-(CF_2)_n-O-(CF_2)_n-SO_3H$ ,  $-(CF_2)_n-SO_3H$ ,  $-O-(CF_2)_n-SO_3H$ ,  $-O-(CF_2)_n-O-(CF_2)_n-SO_3H$ ,  $n$  ranging from 1 to 10, and, for the repeating unit(s) of formula (II),  $W_2$  represents an aryl group bearing a fluorine atom.

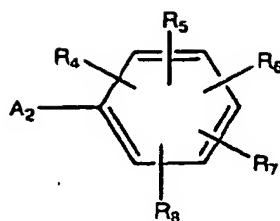
10. (Original) The polymer as claimed in claim 9, the skeleton of which consists of repeating units of formulae (Ib) and (IIa) below:



11. (Previously Presented) A process for preparing a polymer as claimed in claim 1 comprising the reaction of a base polymer whose skeleton consists of at least one repeating unit of formula (II) below:



in which  $R_1$ ,  $R_2$ ,  $R_3$ ,  $E$  and  $W_2$  correspond to the same definition as that given in claim 1, with at least one compound of formula (III) below:



(III)

in which R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> are as defined in claim 1, the group A<sub>2</sub> is an OH, -SH, NH<sub>2</sub> or -NHR group with R corresponding to the same definition as R<sub>9</sub> of claim 1, said group A<sub>2</sub> being capable of effecting the aromatic nucleophilic substitution of a group borne by W<sub>2</sub>, a remaining group after the nucleophilic substitution being -W<sub>1</sub>-A-, W<sub>1</sub> and A corresponding to the same definition as A of claim 1.

12. (Previously Presented) A membrane comprising the polymer as claimed in claim 1.
13. (Original) A fuel cell device comprising at least one membrane as claimed in claim 12.
14. (Previously Presented) The polymer as claimed in claim 1, the molecular weight of which is from 50 000 to 150 000.
15. (Previously Presented) The process as claimed in claim 11, wherein the group borne by W<sub>2</sub> is an F, -O-SO<sub>2</sub>-Aryl or -S(=O)-Aryl group.